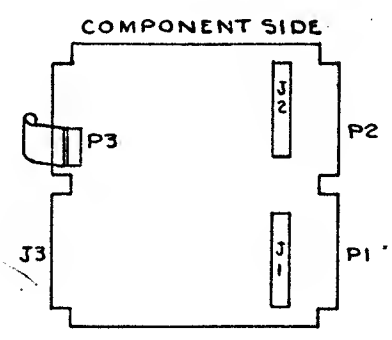


REVISIONS					
REV	DESCRIPTION	DR	CH	DATE	APPROVAL
H0	PRODUCTION RELEASE ENCL 885H	KE	RE	10/1/79	1/1/80
H1	INCORP PER EN 885H	KE	RE	10/1/79	1/1/80
H2	INCORP PER EN 9220H	KE	RE	10/1/79	1/1/80
H3	INCORP PER EN 9479D	KE	RE	10/1/79	1/1/80
H4	INCORP PER EN 9610D	KE	RE	10/1/79	1/1/80
H5	INCORP PER EN 9714H	KE	RE	10/1/79	1/1/80

J3	SIGNAL	DIRECTION	LOC.
PIN B01	SPARE		
B02			
B03			
B04			
B05			
B06			
B07			
B08			
B09			
B10			
B11			
B12			
B13			
B14			
B15			
B16			
B17			
B18			
B19			
B20			
B21			
B22			
B23			
B24			
B25			
B26			
B27			
B28			
B29			
B30			
B31			
B32			
B33			
B34			
B35			
B36			
B37			
B38			
B39			
B40			
B41			
B42			
B43			
B44			
B45			
B46			
B47			
B48			
B49			
B50			
A01	SPARE		
A02	TRP	(TP) →	C89
A03	QPF	(TP) →	C126
A04	FULL	(TP) →	
A05	CIE	(TP) →	C90
A06	CUSQ	(TP) →	A123
A07	PFE	(TP) →	A89
A08	SPARE		
A09	MIN	(TP) →	C78
A10	SPARE		
A11			
A12			
A13			
A14			
A15			
A16			
A17	SPARE		
A18	SNCZ	(TP) →	A97
A19	SPARE		

J3 CONT	SIGNAL	DIRECTION	LOC.
PIN A20	SPARE		
A21			
A22			
A23			
A24			
A25			
A26			
A27			
A28			
A29			
A30			
A31			
A32			
A33			
A34	SPARE		
A35	STRT	(TP) →	C76
A36	SPARE		
A37			
A38			
A39			
A40			
A41			
A42			
A43			
A44			
A45			
A46			
A47			
A48			
A49	SPARE		
PIN A50	MBYT	(TP)	C50

UNUSED GATES / IC			
I/C	I/C	UNUSED PIN	
DESIG.	TYPE	IN	OUT
87	7432	9, 10	8



TABULATION BLOCK	
DASH NO.	DESCRIPTION
- 00	WITH POWER FAIL
- 01	W/OUT PWR FAIL
- 02	WITH RESTART
10 - 03	ACTIVE DMA

- ⑩ DASH 03 IS IDENTICAL TO DASH 00.
- ② THIS SIGNAL CONNECTED THRU MOTHERBOARD ONLY.
- BIDIRECTION SIGNAL DENOTED BY  $\longleftrightarrow$
  - OUTPUT SIGNAL DENOTED BY  $\rightarrow$
  - INPUT SIGNAL DENOTED BY  $\leftarrow$
  - RESISTOR PACKS ARE 1K OHMS,  $\pm 5\%$ ,  $\frac{1}{4}$  W.
  - 2.2 MICROFARAD CAPACITORS ARE  $\pm 10\%$ , 35V.
  - .022 MICROFARAD CAPACITORS ARE  $-80\%$ - $20\%$ , 25V.
  - RESISTORS ARE IN OHMS,  $\pm 5\%$ ,  $\frac{1}{4}$  W.
  - SEE DRAWING NUMBER 73-53506-XX FOR ASSEMBLY DRAWING.

NOTES: UNLESS OTHERWISE SPECIFIED

PROPRIETARY RIGHTS NOTICE  
THIS DOCUMENT AND INFORMATION THAT IT CONTAINS ARE THE PROPERTY OF COMPUTER AUTOMATION, INC. RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH INFORMATION TO OTHERS AND THE RIGHT TO USE THE INFORMATION CONTAINED THEREIN, MAY BE ACQUIRED ONLY BY WRITTEN PERMISSION SIGNED BY A DULY AUTHORIZED OFFICER OF COMPUTER AUTOMATION, INC.

NOTES UNLESS SPECIFIED		DR. G. FONTAN	10/1/79	<p>Computer Automation 18651 Von Karman Irvine, Calif 92664</p>
1. TOLERANCES .XX $\pm .03$ ANGULAR .XXX $\pm .010$ $\pm \frac{1}{2}^\circ$		CHN. G. FONTAN	10/1/79	
2. BREAK ALL SHARP EDGES .010 APPROX.		DSG. G. FONTAN	10/1/79	
3. ALL DIM. IN INCHES		ENC. G. FONTAN	10/1/79	
DASH NO. NEXT ASSEMBLYS				<p>TITLE</p> <p>LOGIC DIAGRAM - PROCESSOR FULL/CARD</p>
				<p>SIZE DWG. NO.</p> <p>D 75-53506-XX</p>
				<p>REV</p> <p>H5</p>
				<p>DO NOT SCALE DRAWING</p> <p>SCALE = NONE</p>
				<p>SHT. 1 OF 18</p>

REVISIONS			
SYN	DESCRIPTION	DATE	APPROVAL

PI		J1
133	$\overline{AL}$	A27
162	$\overline{OUT}$	B49
111	$\overline{TTLF}$	AB

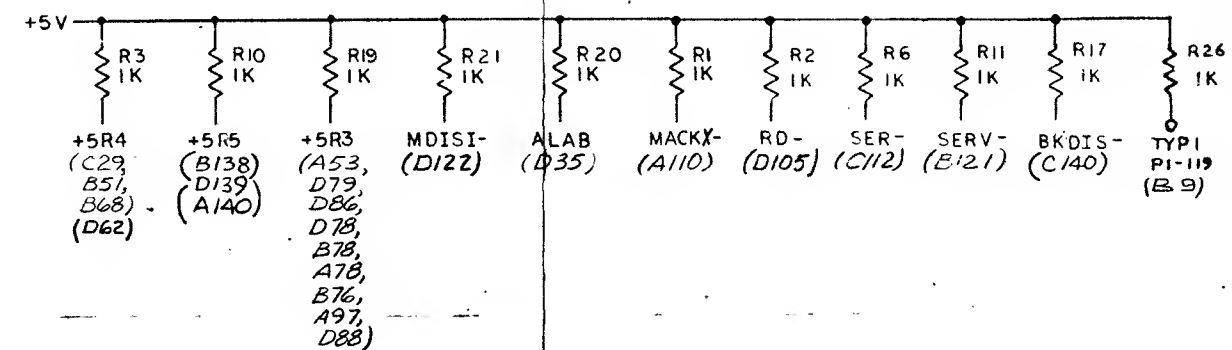
  

136	—	$\overline{SACK}$ (D18)
119	—	$\overline{TYP1}$ (A17)

	SIZE D	75-53506-XX	REV 45
	SCALE =		SHT. 2 OF

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

(D42) BBS12	2	RP5	2	OPT (B104)
(C42) BBS08	7		4	BBS00 (A42)
(D42) BBS15	4		5	BBS01 (B42)
(D42) BBS14	6		10	BBS07 (B42)
(D42) BBS13	5		8	BBS06 (B42)
(D44) TWT5	3		9	BBS05 (B42)
(C42) BBS11	10		7	BBS04 (B42)
(C42) BBS10	9		3	BBS03 (B42)
(C42) BBS09	8		6	BBS02 (B42)
+5V	1		1	+5



# PULLUPS

(C70) DB13	9	RP7	9
(C70) DB15	3		3
(B70) DB11	4		4
(C70) DB12	8		8
(C70) DB10	6		6
(C70) DB08	5		5
(C70) DB09	7		7
N/C	10		10
(C70) DB14	2		2
+5V	1		1

2	AB03 (A65)	RP3	2
4	AB01 (A65)		4
6	AB00 (A65)		6
9	DB02 (D89)		9
10	DB03 (B70)		10
7	DEC7 (B70)		7
8	DB05 (B70)		8
3	AB04 (B67)		3
5	DB07 (B70)		5
+5V	1		1

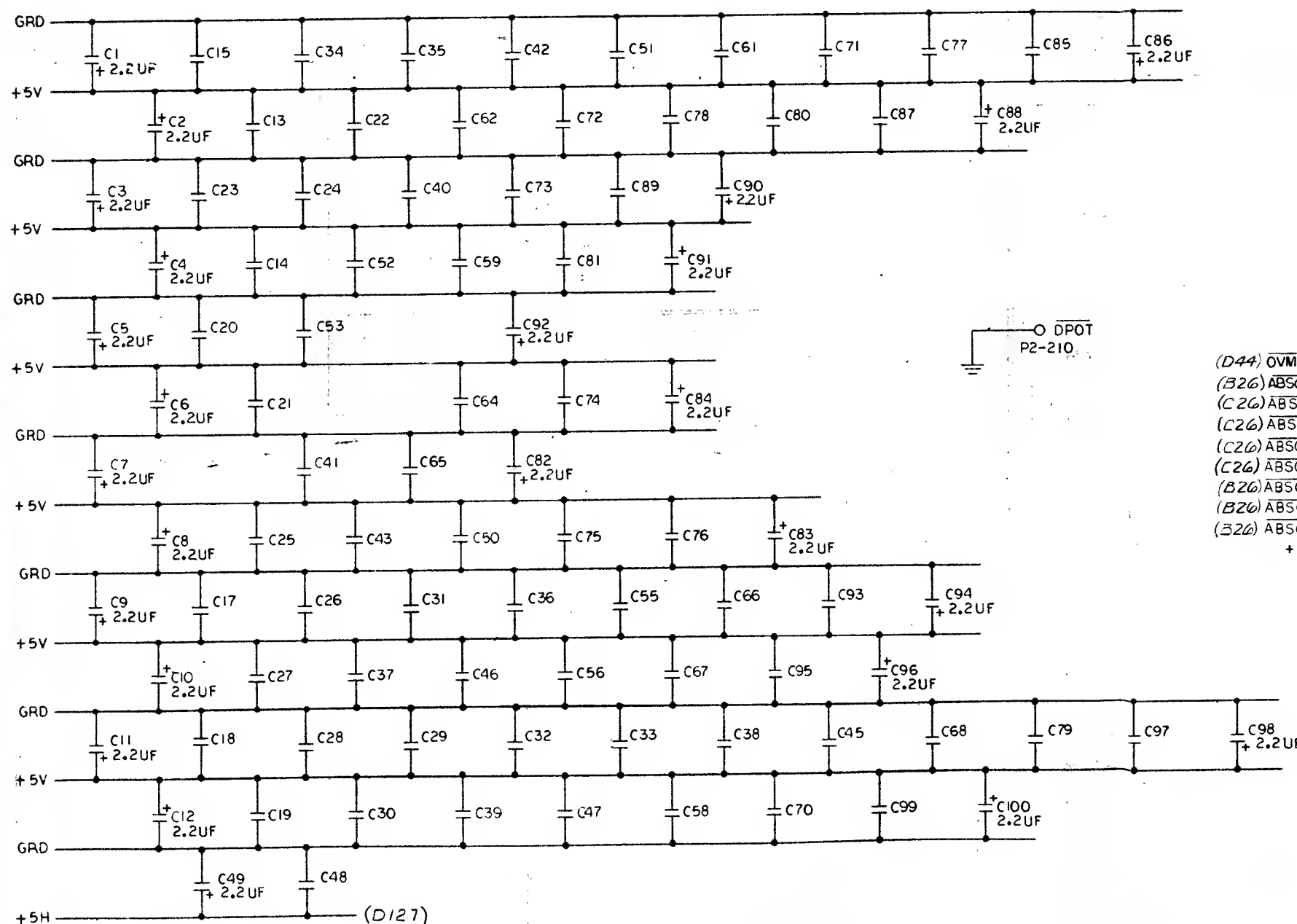
(D44) OVMI5	10	RP9	10
(B26) ABS04	3		3
(C26) ABS11	8		8
(C26) ABS10	6		6
(C26) ABS09	9		9
(C26) ABS08	7		7
(B26) ABS07	4		4
(B26) ABS06	5		5
(B26) ABS05	2		2
+5V	1		1

10	OVMI5 (D44) (C100) R0T	RP8	10
3	ABS15 (D26) (B114) EXEC		3
2	ABS14 (D26) (A114) IN		2
9	ABS03 (D26) (B114) IAR		9
8	ABS02 (D26) (A114) OUT		8
6	ABS01 (D26) (B114) EXC		6
7	ABS00 (D26) (C114) ECHD		7
5	ABS12 (D26) (B114) STEND		5
4	ABS13 (D26) (B114) FLSE		4
+5V	1		1

10	+5R1 (D91, C90, D64, D77, B102, A109)	RP11	10
9	RST (C122)		9
8	IL2 (C104)		8
7	MRST (C63)		7
6	CUSQ (A123)		6
5	ILI (D104)		5
4	IOCL (A111)		4
3	+5R2 (B101, A100, B99, B110, B111, B1CB)		3
2	+5R6 (D124, B128)		2
+5V	1		1

(A67) AB07	3	RP1	3
(A112) MPCR	8		8
N/C	7		7
(C104) OFST	4		4
(B67) AB06	6		6
(C113) MST	2		2
(C115) STCP	9		9
(C103) PR0T	10		10
(C49) SLB	1		1
+5V	1		1

2	START (B122)	RP2	2
5	IUR (C104)		5
3	AB02 (A67)		3
7	CB04 (B62)		7
4	AB05 (B67)		4
6	IUA (D13)		6
8	SACK (B9)		8
10	DB00 (D89)		10
9	DB01 (D89)		9
+5V	1		1

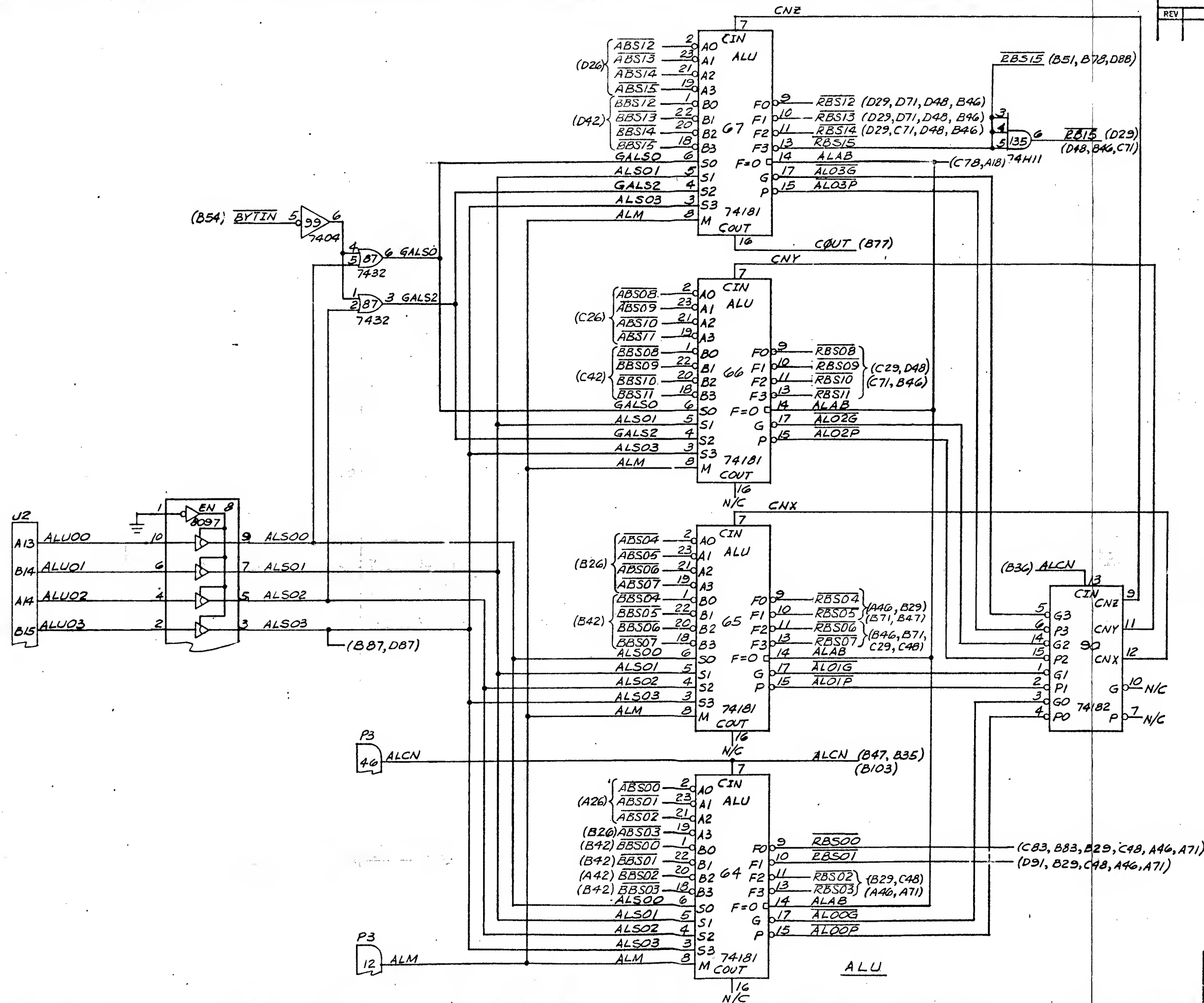


**PROPRIETARY RIGHTS NOTICE**  
 THIS DOCUMENT AND INFORMATION THAT IT CONTAINS ARE THE PROPERTY OF COMPUTER AUTOMATION, INC. RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH INFORMATION TO OTHERS AND THE RIGHT TO USE THE INFORMATION CONTAINED THEREIN MAY BE ACQUIRED ONLY BY WRITTEN PERMISSION FROM A DULY AUTHORIZED OFFICER OF COMPUTER AUTOMATION, INC.

SIZE	75-53506-XX	REV	H5
D			
SCALE		SHT. 3 OF	





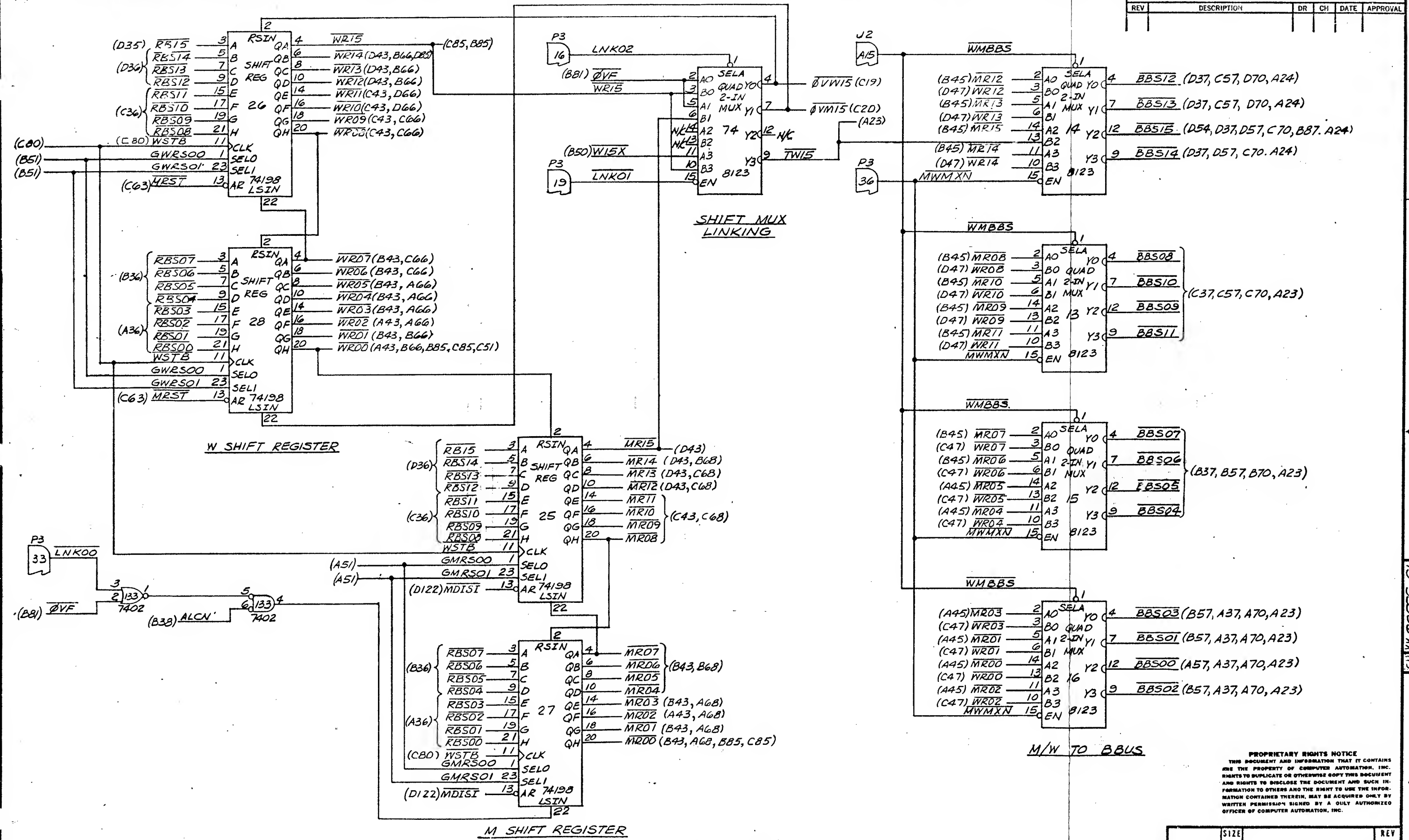


REVISIONS				
REV	DESCRIPTION	DR	CH	DATE

PROPRIETARY RIGHTS NOTICE  
 THIS DOCUMENT AND INFORMATION THAT IT CONTAINS  
 ARE THE PROPERTY OF COMPUTER AUTOMATION, INC.  
 RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT  
 AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH IN-  
 FORMATION TO OTHERS AND THE RIGHT TO USE THE IN-  
 FORMATION CONTAINED THEREIN, MAY BE ACQUIRED ONLY BY  
 WRITTEN PERMISSION SIGNED BY A DULY AUTHORIZED  
 OFFICER OF COMPUTER AUTOMATION, INC.

SIZE	D	REV	45
SCALE	1/8" = 1"	SHEET	5 OF 5

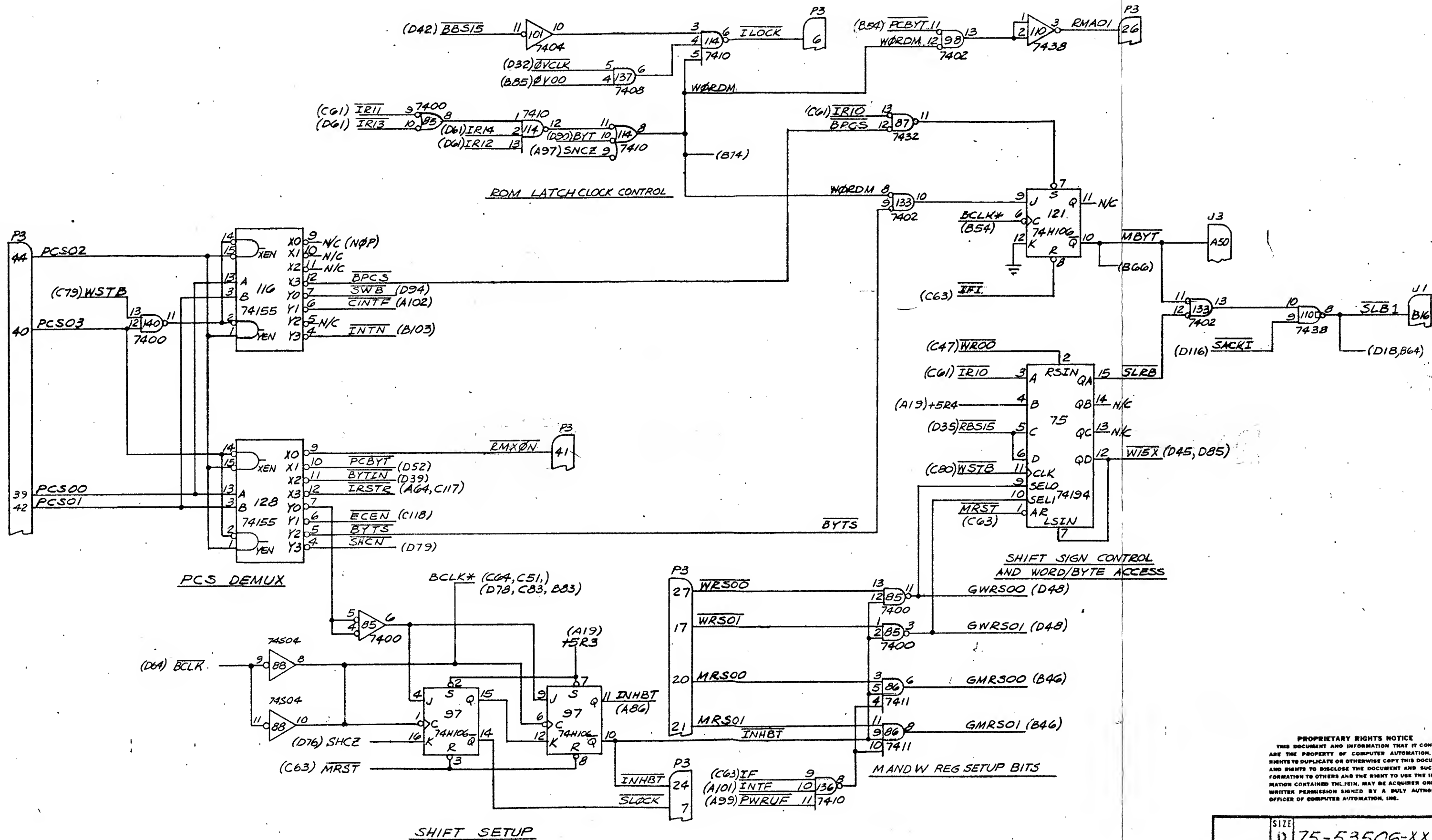
REVISIONS					
REV	DESCRIPTION	DR	CH	DATE	APPROVAL



PROPRIETARY RIGHTS NOTICE  
 THIS DOCUMENT AND INFORMATION THAT IT CONTAINS ARE THE PROPERTY OF COMPUTER AUTOMATION, INC. RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH INFORMATION TO OTHERS AND THE RIGHT TO USE THE INFORMATION CONTAINED THEREIN, MAY BE ACQUIRED ONLY BY WRITTEN PERMISSION SIGNED BY A QUALIFIED AUTHORIZED OFFICER OF COMPUTER AUTOMATION, INC.

SIZE	D	75-53506-XX	REV	H5
SCALE	1	SH. 6 OF		

REVISIONS				
REV	DESCRIPTION	DR	CH	DATE



PROPRIETARY RIGHTS NOTICE  
 THIS DOCUMENT AND INFORMATION THAT IT CONTAINS  
 ARE THE PROPERTY OF COMPUTER AUTOMATION, INC.  
 RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT  
 AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH IN-  
 FORMATION TO OTHERS AND THE RIGHT TO USE THE IN-  
 FORMATION CONTAINED THEREIN, MAY BE ACQUIRED ONLY BY  
 WRITTEN PERMISSION SIGNED BY A DULY AUTHORIZED  
 OFFICER OF COMPUTER AUTOMATION, INC.

SIZE	D	REV	H5
SCALE	1	SHT. 7 OF	

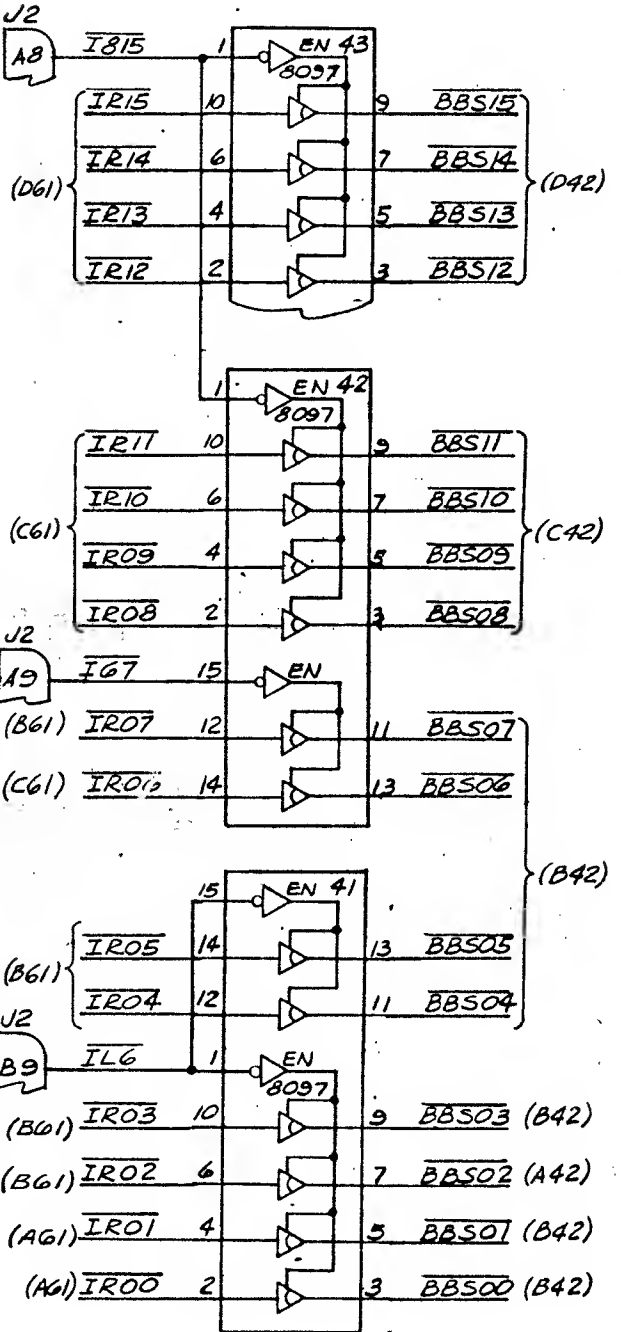
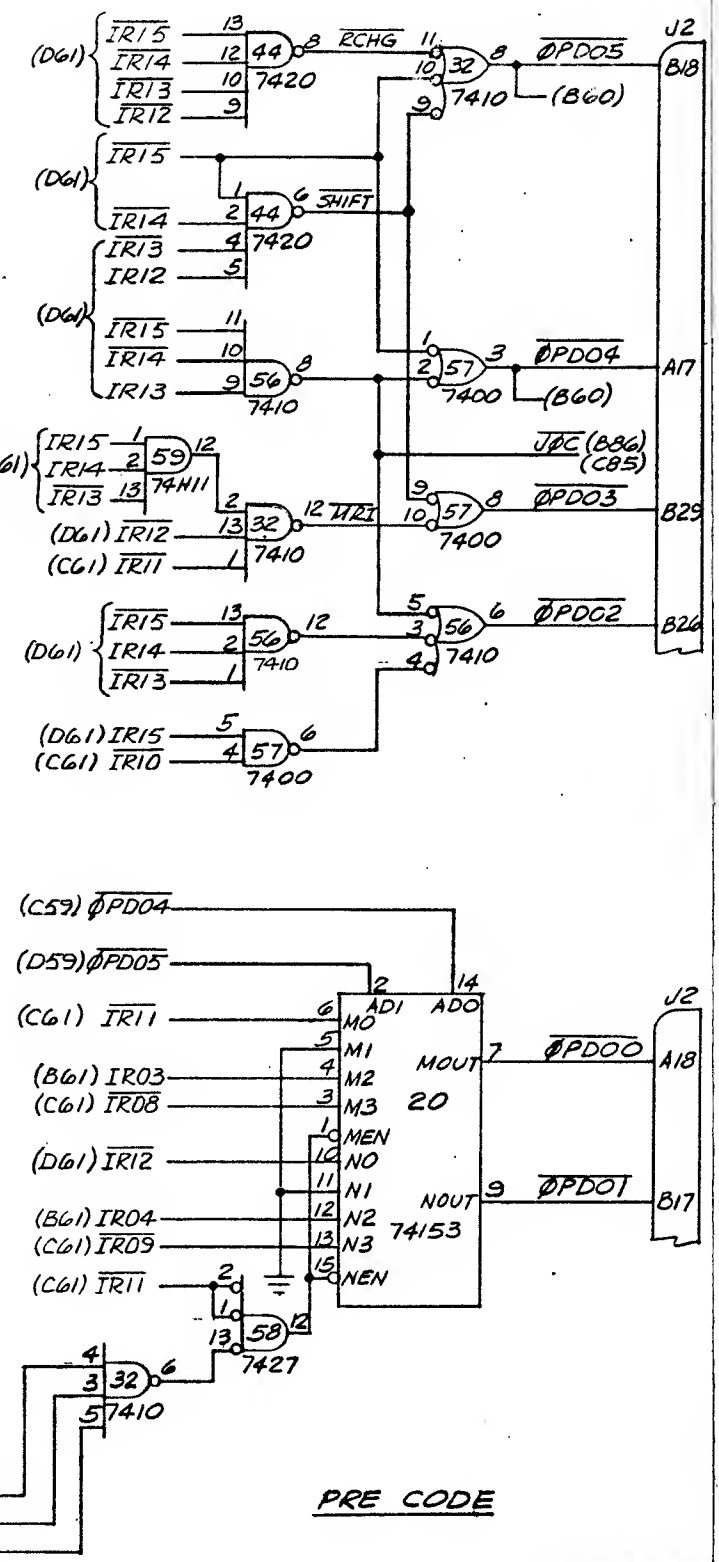
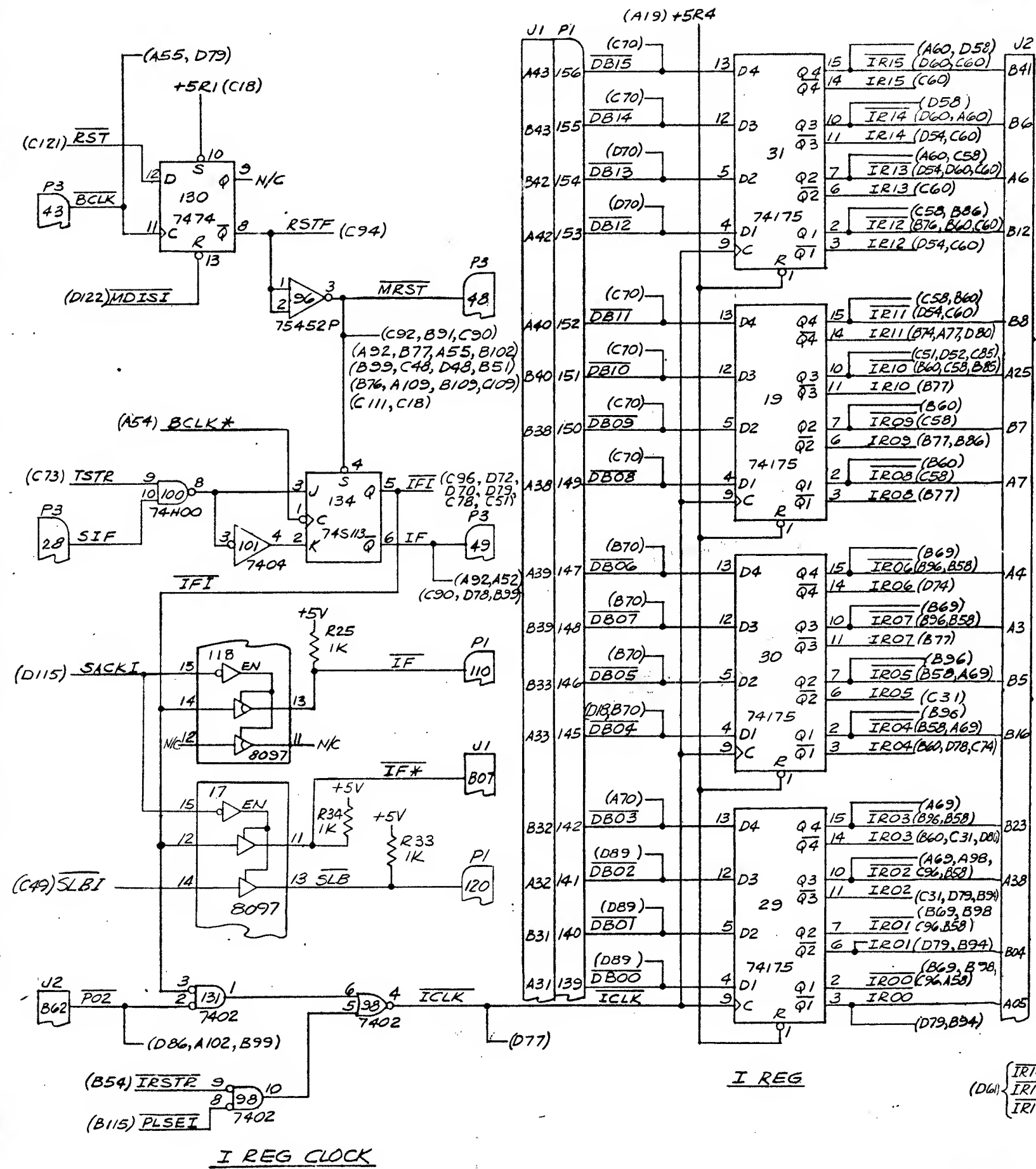
D

C

B

A

75-53506-X H5



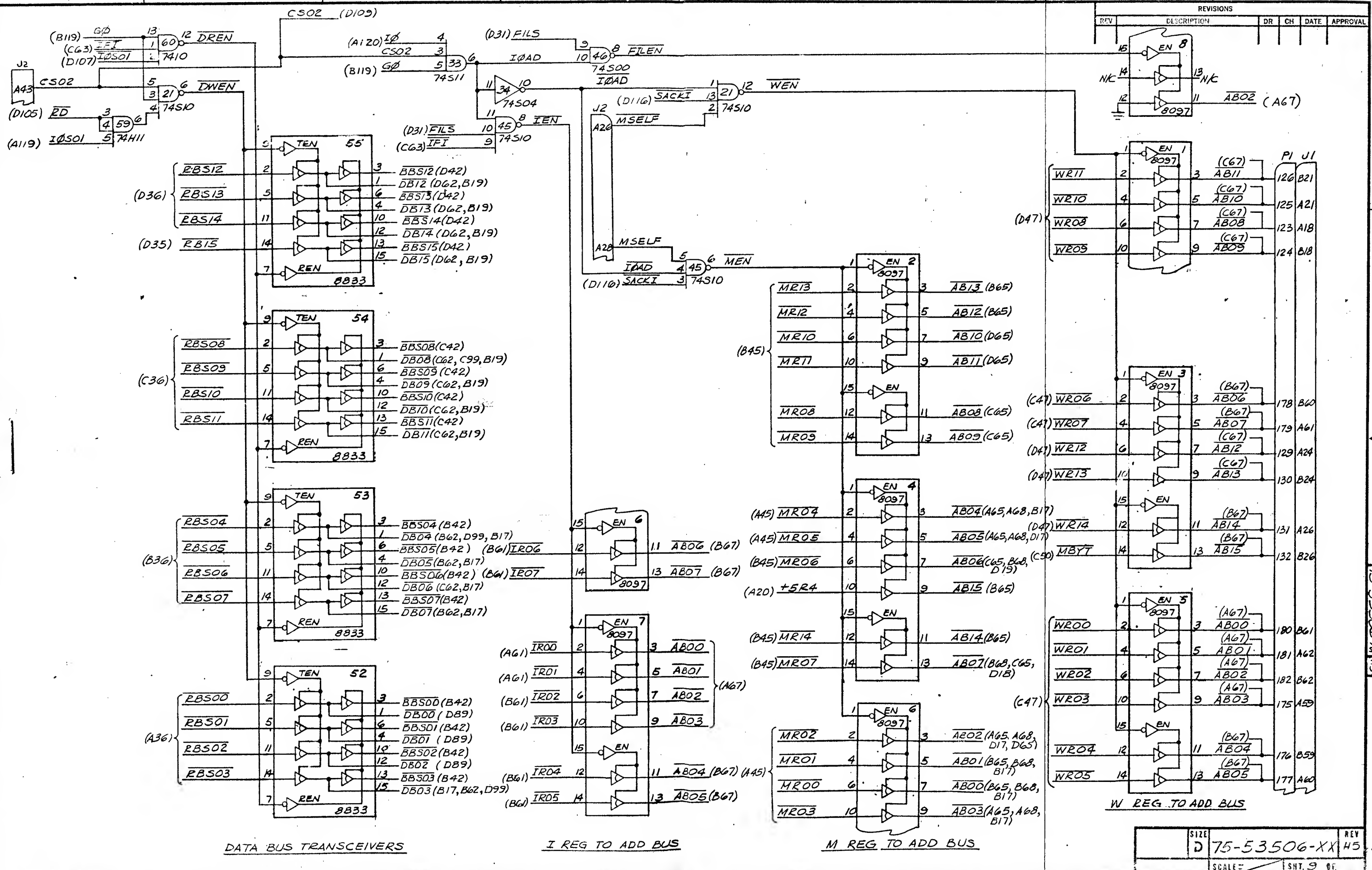
PROPRIETARY RIGHTS NOTICE  
THIS DOCUMENT AND INFORMATION THAT IT CONTAINS ARE THE PROPERTY OF COMPUTER AUTOMATION, INC. RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT AND RIGHTS TO DISCLOSE THE DOCUMENT AND MUCH INFORMATION TO OTHERS AND THE RIGHT TO USE THE INFORMATION CONTAINED THEREIN, MAY BE ACQUIRED ONLY BY WRITTEN PERMISSION GRANTED BY A DULY AUTHORIZED OFFICER OF COMPUTER AUTOMATION, INC.

SIZE	REV
D 75-53506-XX	H5
SCALE	SHT. 8 OF

REVISIONS				
REV	DESCRIPTION	DR	CH	DATE

D  
C  
B  
A





REVISIONS				
REV	DESCRIPTION	DR	CH	DATE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

SIZE	D	75-53506-XX	REV	H5
SCALE			SHT. 9	OF







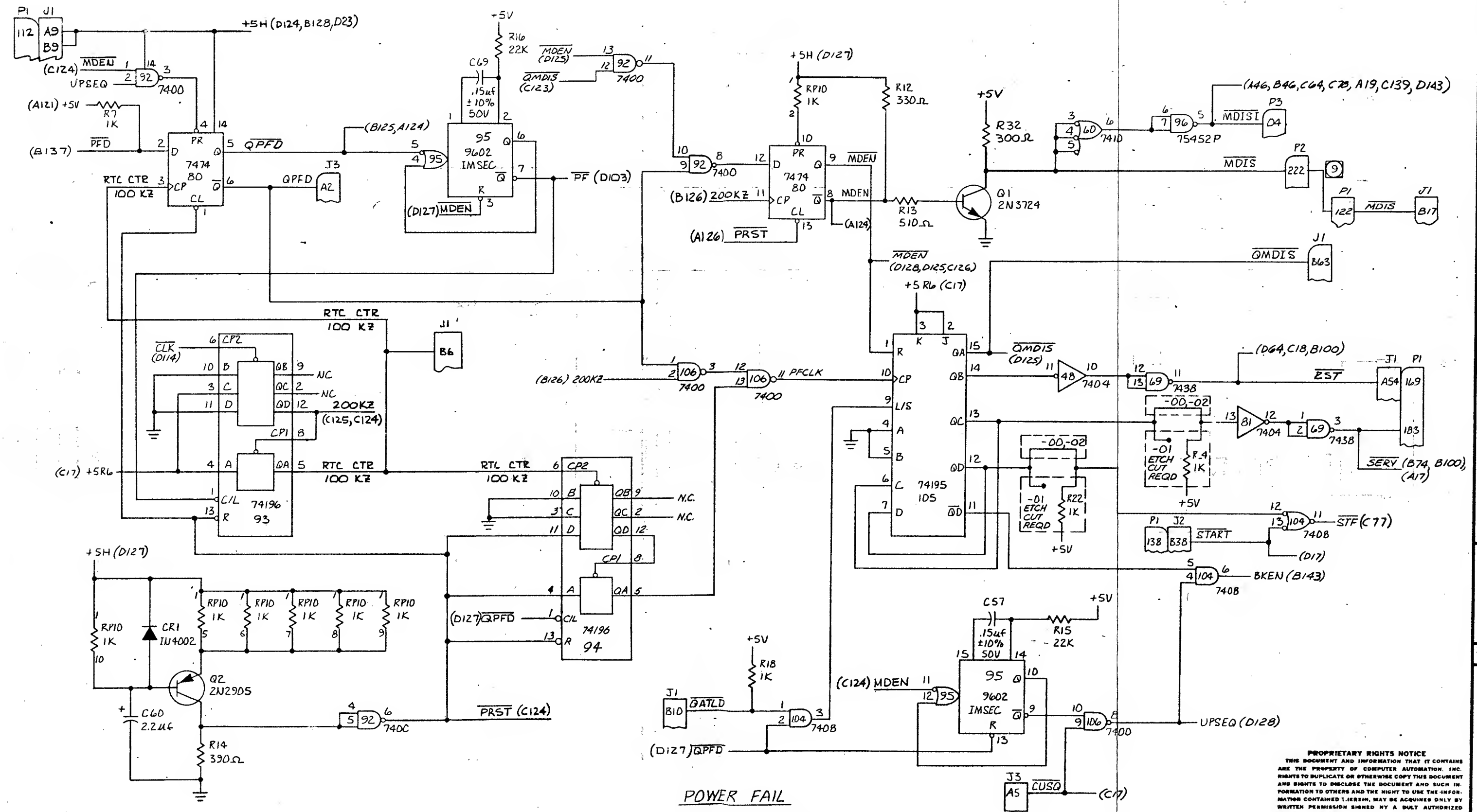








REVISIONS				
REV	DESCRIPTION	DR	CH	DATE

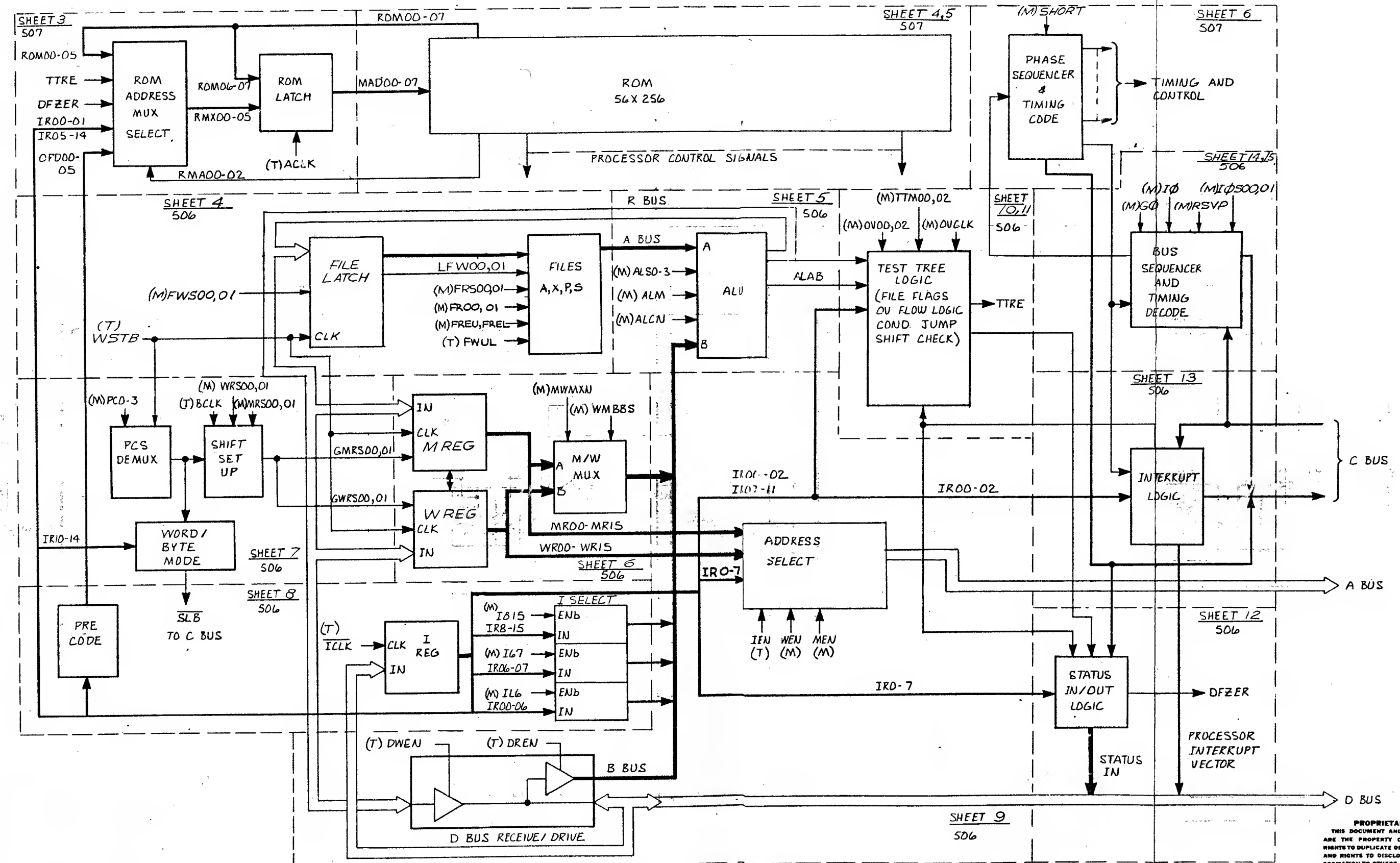


PROPRIETARY RIGHTS NOTICE  
 THIS DOCUMENT AND INFORMATION THAT IT CONTAINS ARE THE PROPERTY OF COMPUTER AUTOMATION, INC. RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH INFORMATION TO OTHERS AND THE RIGHT TO USE THE INFORMATION CONTAINED HEREIN, MAY BE ACQUIRED ONLY BY WRITTEN PERMISSION SIGNED BY A DULY AUTHORIZED OFFICER OF COMPUTER AUTOMATION, INC.

SIZE	75-53506-XX	REV	H5
SCALE	1/16 OF		



REVISIONS					
REV	DESCRIPTION	DR	CH	DATE	APPROVAL



2. (T) DESIGNATES TIMING AND CONTROL SIGNALS.  
 1. (M) DESIGNATES PROCESSOR (ROM) CONTROL SIGNALS.  
 NOTES-UNLESS OTHERWISE SPECIFIED

LSI-2 BLOCK DIAGRAM

**PROPRIETARY RIGHTS NOTICE**  
 THIS DOCUMENT AND INFORMATION THAT IT CONTAINS ARE THE PROPERTY OF COMPUTER AUTOMATION, INC. RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH INFORMATION TO OTHERS AND THE RIGHT TO USE THE INFORMATION CONTAINED THEREIN, MAY BE ACQUIRED ONLY BY WRITTEN PERMISSION SIGNED BY A DULY AUTHORIZED OFFICER OF COMPUTER AUTOMATION, INC.

SIZE D	75-53506-XX	REV H5
SCALE =	SHT. 17 OF	

REVISIONS					
REV	DESCRIPTION	DR	CH	DATE	APPROVAL

THIS SHEET CONTAINS PROPRIETARY INFORMATION.  
WHICH MAY NOT BE REPRODUCED

PROPRIETARY RIGHTS NOTICE  
THIS DOCUMENT AND INFORMATION THAT IT CONTAINS ARE THE PROPERTY OF COMPUTER AUTOMATION, INC. RIGHTS TO DUPLICATE OR OTHERWISE COPY THIS DOCUMENT AND RIGHTS TO DISCLOSE THE DOCUMENT AND SUCH INFORMATION TO OTHERS AND THE RIGHT TO USE THE INFORMATION CONTAINED THEREIN, MAY BE ACQUIRED ONLY BY WRITTEN PERMISSION SIGNED BY A DULY AUTHORIZED OFFICER OF COMPUTER AUTOMATION, INC.

SIZE D	75-53506-XX	REV H5
SCALE=	SHT. 13 OF 15	

D  
C  
B  
A